



ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	Digital Image Processing Using Face Detection Information						
Application Number:	10/608810 						
Confirmation Number:	7957						
First Named Applicant:	Eran Steinberg						
Attorney Docket Number:	2100874-991210						
Art Unit:	2621						
Search string:	(4047187 or 4317991 or 4367027 or 4638364 or 5164992 or 5291234 or 5488429 or 5638136 or 5710833 or 5724456 or 5745668 or 5774129 or 5781650 or 5812193 or 5818975 or 5835616 or 5844573 or 5852823 or 5870138 or 5911139 or 5978519 or 5991456 or 6072094 or 6097470 or 6101271 or 6128397 or 6148092 or 6151073 or 6188777 or 6192149 or 6249315 or 6263113 or 6268939 or 6282317 or 6301370 or 6332033 or 6349373 or 6351556 or 6393148 or 6404900 or 6407777 or 6421468 or 6438264 or 6456732 or 6459436 or 6473199 or 6501857 or 6502107 or 6504942 or 6504951 or 6516154 or 6526161 or 6564225 or 6567983 or RE31370 or RE33682 or RE36041 or 20010028731 or 20010031142 or 20020105662 or 20020106114 or 20020114535 or 20020136433 or 20020168108 or 20020172419 or 20020191861 or 20030025812 or 20030035573 or 20030048950 or 20030052991 or 20030059107 or 20030059121 or 20030071908 or 20030084065 or 20030107649 or 20030118216 or 20030202715).pn.						
US Patent Documents							
Note: Applicant is not required to submit a paper copy of cited US Patent Documents							
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
MS/	1	4047187	1977-09-06	Mashimo et al.		354	23 D
MS/	2	4317991	1982-03-02	Stauffer		250	201

MS/	3	4367027	1983-01-04	Stauffer	354	195	
	4	4638364	1987-01-20	Hiramatsu	358	227	
	5	5164992	1992-11-17	Turk et al.	382	2	
	6	5291234	1994-03-01	Shindō et al.	354	402	
	7	5488429	1996-01-30	Kojima et al.	348	653	
	8	5638136	1997-06-10	Kojima et al.	348	653	
	9	5710833	1998-01-20	Moghaddam et al.	382	228	
	10	5724456	1998-03-03	Boyack et al.	382	274	
	11	5745668	1998-04-28	Poggio et al.	395	175	
	12	5774129	1998-06-30	Poggio et al.	345	441	
	13	5781650	1998-07-14	Lobo et al.	382	118	
	14	5812193	1998-09-22	Tomitaka et al.	348	369	
	15	5818975	1998-10-06	Goodwin et al.	382	274	
	16	5835616	1998-11-10	Lobo et al.	382	118	
	17	5844573	1998-12-01	Poggio et al.	345	441	
	18	5852823	1998-12-22	De Bonet	707	6	
	19	5870138	1999-02-09	Smith et al.	348	143	
	20	5911139	1999-06-08	Jain et al.	707	3	
	21	5978519	1999-11-02	Bollman et al.	382	282	
	22	5991456	1999-11-23	Rahman et al.	382	254	
	23	6072094	2000-06-06	Karady et al.	585	538	
	24	6097470	2000-08-01	Buhr et al.	355	38	
	25	6101271	2000-08-08	Yamashita et al.	382	167	
	26	6128397	2000-10-03	Baluja et al.	382	118	
	27	6148092	2000-11-14	Qian	382	118	
	28	6151073	2000-11-21	Steinberg et al.	348	371	
	29	6188777	2001-02-13	Darrell et al.	B1	382	103
	30	6192149	2001-02-20	Eschbach et al.	B1	382	168
	31	6249315	2001-06-19	Holm	B1	348	251
	32	6263113	2001-07-17	Abdel-Mottaleb et al.	B1	382	237
	33	6268939	2001-07-31	Klassen et al.	B1	358	518
	34	6282317	2001-08-28	Luo et al.	B1	382	203
	35	6301370	2001-10-09	Steffens et al.	B1	382	103
	36	6332033	2001-12-18	Qian	B1	382	124
	37	6349373	2002-02-19	Sitka et al.	B2	711	161
▼	38	6351556	2002-02-26	Loui et al.	B1	382	164

	39	6393148	2002-05-21	Bhaskar	B1	382	169
	40	6404900	2002-06-11	Qian et al.	B1	382	103
	41	6407777	2002-06-18	DeLuca	B1	348	576
	42	6421468	2002-07-16	Ratnakar et al.	B1	382	254
	43	6438264	2002-08-20	Gallagher et al.	B1	382	167
	44	6456732	2002-09-24	Kimbell et al.	B1	382	112
	45	6459436	2002-10-01	Kumada et al.	B1	345	590
	46	6473199	2002-10-29	Gilman et al.	B1	358	1.9
	47	6501857	2002-12-31	Gotsman et al.	B1	382	224
	48	6502107	2002-12-31	Nishida	B1	707	104.1
	49	6504942	2003-01-07	Hong et al.	B1	382	103
	50	6504951	2003-01-07	Luo et al.	B1	382	165
	51	6516154	2003-02-04	Parulski et al.	B1	396	287
	52	6526161	2003-02-25	Yan	B1	382	118
	53	6564225	2003-05-13	Brogliatti et al.	B1	707	104.1
	54	6567983	2003-05-20	Shiimori	B1	725	105
	55	RE31370	1983-09-06	Mashimo et al.		354	23
	56	RE33682	1991-09-03	Hiramatsu		358	227
▼	57	RE36041	1999-01-12	Turk et al.		382	118

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
	1	20010028731	2001-10-11	Covell et al.	A1	382	118
	2	20010031142	2001-10-18	Whiteside	A1	396	61
	3	20020105662	2002-08-08	Patton et al.	A1	358	1.9
	4	20020106114	2002-08-08	Yan et al.	A1	382	118
	5	20020114535	2002-08-22	Luo	A1	382	282
	6	20020136433	2002-09-26	Lin	A1	382	118
	7	20020168108	2002-11-14	Loui et al.	A1	382	190
	8	20020172419	2002-11-21	Lin et al.	A1	382	167
	9	20020191861	2002-12-19	Cheatle	A1	382	282
	10	20030025812	2003-02-06	Slatter	A1	348	240.2
	11	20030035573	2003-02-20	Dutta et al.	A1	382	128
▼	12	20030048950	2003-03-13	Savakis et al.	A1	382	225

	13	20030052991	2003-03-20	Stavely et al.	A1	348	370
	14	20030059107	2003-03-27	Sun et al.	A1	382	165
	15	20030059121	2003-03-27	Savakis et al.	A1	382	239
	16	20030071908	2003-04-17	Sannoh	A1	348	345
	17	20030084065	2003-05-01	Lin et al.	A1	707	104.1
	18	20030107649	2003-06-12	Flickner et al.	A1	348	150
	19	20030118216	2003-06-26	Goldberg	A1	382	115
V	20	20030202715	2003-10-30	Kinjo	A1	382	282

Remarks

Note: Remarks are not for responding to an office action.

Each item of information listed in the attached electronic FORM PTO-1449 may be material to the examination of the above-identified application and is, therefore, submitted in compliance with the duty of disclosure defined in 37 CFR 1.56, 1.97 and 1.98. The Examiner is requested to make these items of official record in this application. This Information Disclosure Statement under 37 CFR 1.56, 1.97 and 1.98 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these items constitutes prior art. If this statement crosses in the mail with an office action, or is otherwise not in the indicated category of 37 C.F.R. 1.97, it is respectfully requested that this statement be treated in the next appropriate category and made of record. To the extent required, please treat this submission as a conditional petition for acceptance of the information disclosure statement. In the event any fee is required for filing the above-noted document, including any fees required under 37 CFR 1.136 for any necessary Extension of Time to make the filing of the attached document timely, the Assistant Commissioner is hereby authorized to charge the fee to our Deposit Account No. 07-1896.

Signature

Examiner Name	Date
/Manav Seth/	02/17/2008

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Application Number : 10/608,810

Filing Date June 26, 2003

First Named Inventor Eran Steinberg

Art Unit 2621

Examiner Name

Attorney Docket N

Number 2100874-991210

Sheet 1 of 4 Attorney Docket Number 2100874-991210

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
/MS/		JP 5-260360 (Includes English Abstract)	10-08-1993	Shinichi		
/MS/		EP 1 128 316 A1	08-29-2001	Ray		
/MS/		GB 2 370 438 A	06-26-2002	Cheatle		
/MS/		WO 02/052835	07-04-2002	Cheatle		

Examiner Signature	/Manav Seth/	Date Considered	02/17/2008
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Translation is attached.

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STATEMENT BY APPLICANT

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Sheet

2 of 4

Complete if Known	
Application Number	10/608,810
Filing Date	June 26, 2003
First Named Inventor	Eran Steinberg
Art Unit	2621
Examiner Name.	

Attorney Docket Number 2100874-991210

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/MS/		P. VUYLSTEKE, et al., Range Image Acquisition with a Single Binary-Encoded Light Pattern, IEEE Transactions on Pattern Analysis and Machine Intelligence, abstract printed from http://csdl.computer.org/comp/trans/p/1990/02/0148abs.htm , 1990, 1 page	
		D. SHOCK, et al., Comparison of Rural Remote Site Production of Digital Images Employing a Film Digitizer or a Computed Radiography (CR) System, 4th International Conference on Image Management and Communication (IMAC '95), August 21-24, 1995, Abstract printed from http://csdl.computer.org/comp/proceedings/imac/1995/7560/00/75600071abs.htm	
		J.W. SUBLETT, et al., Design and Implementation of a Digital Teleultrasound System for Real-Time Remote Diagnosis, Eight Annual IEEE Symposium on Computer-Based Medical Systems (CBMS '95) June 9-10, 1995, Lubbock, Texas, Abstract printed from http://csdl.computer.org/comp/proceedings/cbms/1995/7117/00/71170292abs.htm	
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		M. SHAND, Flexible Image Acquisition Using Reconfigurable Hardware, IEEE Symposium of FPGA's for Custom Computing Machines (FCCM '95), April 19-21, 1995, Napa Valley, California, Abstract printed from http://csdl.computer.org/comp/proceedings/fccm/1995/7086/00/70860125abs.htm	
		DAECHUL PARK, et al., Lenticular Stereoscopic Imaging and Displaying Techniques with no Special Glasses, 1995 International Conference on Image Processing (Vol. 3)-Volume 3, October 23-26, 1995, Washington, D.C., Abstract printed from http://csdl.computer.org/comp/proceedings/icip/1995/7310/03/73103137abs.htm	
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		ARUN KRISHMAN, Panoramic Image Acquisition, 1996 Conference on Computer Vision and Pattern Recognition (CVPR '96), June 18-20, 1996, San Francisco, CA, Abstract printed from http://csdl.computer.org/comp/proceedings/cvpr/1996/7258/00/72580379abs.htm	
▼		TONY S. JEBARA, 3D Pose Estimation and Normalization for Face Recognition, Department of Electrical Engineering, McGill University, A Thesis submitted to the Faculty of Graduate Studies and Research in Partial fulfilment of the requirements of the degree of Bachelor of Engineering, May 1996, pp. 1-121.	

Examiner Signature	/Manav Seth/	Date Considered	02/17/2008
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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet 3

of 4

Complete if Known

Application Number	10/608,810
Filing Date	June 26, 2003
First Named Inventor	Eran Steinberg
Art Unit	2621
Examiner Name	

Attorney Docket Number 2100874-991210

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/MS/		DAVID BEYMER, Pose-Invariant Face Recognition Using Real and Virtual Views, Massachusetts Institute of Technology Artificial Intelligence Laboratory, A.I. Technical Report No. 1574, March 1996, pp. 1-176.	
		WEN-CHEN HU, et al., A Line String Image Representation for Image Storage and Retrieval, 1997 International Conference on Multimedia Computing and Systems (ICMCS '97), June 3-6, 1997, Ottawa, Ontario, Canada, Abstract printed from http://csdl.computer.org/comp/proceedings/icmcs/1997/7819/00/78190434abs.htm	
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		HIROYUKI AOKI, et al., An Image Storage System Using Complex-Valued Associative Memories, International Conference on Pattern Recognition (ICPR '00)-Volume 2, September 3-8, 2000, Barcelona, Spain, Abstract printed from http://csdl.computer.org/comp/proceedings/icpr/2000/0750/02/07502626abs.htm	
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		REINHOLD HUBER, et al., Adaptive Aperture Control for Image Acquisition, Sixth IEEE Workshop on Applications of Computer Vision, December 3-4, 2002, Orlando Florida, Abstract printed from http://csdl.computer.org/comp/proceedings/wacv/2002/1858/00/18580320abs.htm	
		MICHAL KOZUBEK, et al., Automated Multi-view 3D Image Acquisition in Human Genome Research, 1st International Symposium on 3D Data Processing Visualization and Transmission (3DPVT '02), June 19-21, 2002, Padova, Italy, Abstract printed from http://csdl.computer.org/comp/proceedings/3dpvt/2002/1521/00/15210091abs.htm	
↓		NOBUYUKI KITA, et al., Archiving Technology for Plant Inspection Images Captured by Mobile Active Cameras – 4D Visible Memory – 1st International Symposium on 3D Data Processing Visualization and Transmission (3DPVT '02), June 19-21, 2002, Padova, Italy, Abstract printed from http://csdl.computer.org/comp/proceedings/3dpvt/2002/1521/00/15210208abs.htm	

Examiner Signature	/Manav Seth/	Date Considered	02/17/2008
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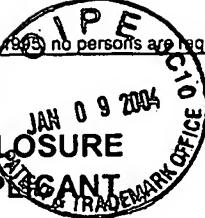
This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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STATEMENT BY APPLICANT**

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Sheet 4



of 4

Complete If Known

Application Number	10/608,810
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First Named Inventor	Eran Steinberg
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Examiner Name	

Attorney Docket Number 2100874-991210

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/MS/		ANNA T. FERNANDEZ, et al., Synthetic Elevation Beamforming and Image Acquisition Capabilities Using an 8x 128-1.75D Array, The Technical Institute of Electrical and Electronics Engineers, Abstract printed from http://www.ieee-uffc.org/archive/uffc/trans/toc/abs/03/10310040.htm	
		HENRY A. ROWLEY, et al., Neutral Network-Based Face Detection, IEEE Transactions on Pattern Analysis and Machine Intelligence, January 1998, pp. 23-38, Vol. 20, No. 1.	
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↓		Twins Crack Face Recognition Puzzle, Internet article http://www.cnn.com/2003/TECH/ptech/03/10/israel.twins.reut/index.html , printed March 10, 2003, 3 pages.	

Examiner Signature	/Manav Seth/	Date Considered	02/17/2008
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Sheet

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of

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Application Number	10/608,810
Filing Date	June 26, 2003
First Named Inventor	Eran Steinberg
Art Unit	2624
Examiner Name	Manav Seth

Attorney Docket Number

FN102-A

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/MS/		US-4,970,683	11-13-1990	Harshaw et al.	
		US-5,150,432	09-22-1992	Ueno et al.	
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		US-2006/0018517 A1	01-26-2006	Chen et al.	
		US-2006/0203107 A1	09-14-2006	Steinberg et al.	

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Sheet

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of

3

Application Number

10/608,810

Filing Date

June 26, 2003

First Named Inventor

Eran Steinberg

Art Unit

2624

Examiner Name

Manav Seth

Attorney Docket Number

FN102-A

U. S. PATENT DOCUMENTS

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/MS/		US-2006/0203108 A1	09-14-2006	Steinberg et al.	
		US-2006/0204034 A1	09-14-2006	Steinberg et al.	
		US-2006/0204054 A1	09-14-2006	Steinberg et al.	
		US-2006/0204055 A1	09-14-2006	Steinberg et al.	
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		US-2006/0204057 A1	09-14-2006	Steinberg	
		US-2006/0204110 A1	09-14-2006	Steinberg et al.	
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		US-2007/0110305 A1	05-17-2007	Corcoran et al.	
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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/MS/		U.S. Patent Application No. 10/608,772, entitled "Method of improving orientation and color balance of digital images using face detection information"	
/MS/		PCT Application No. PCT/US2006/021393, filed June 2, 2006, entitled "Modification of Post-Viewing Parameters for Digital Images Using Image Region or Feature Information"	
/MS/		PCT Application No. PCT/US2006/060392, filed October 31, 2006, entitled "Digital Image Processing Using Face Detection and Skin Tone Information"	

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